OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for SC126900

Kaiso (ZBTB33) (NM_006777) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Kaiso (ZBTB33) (NM_006777) Human Untagged Clone
Tag:	Tag Free
Symbol:	Kaiso
Synonyms:	ZNF-kaiso; ZNF348
Mammalian Cell Selection:	None
Vector:	pCMV6-XL4
E. coli Selection:	Ampicillin (100 ug/mL)

View online »

Fully Sequenced ORF:

>OriGene ORF within SC126900 sequence for NM_006777 edited (data generated by NextGen Sequencing)

ATGGAGAGTAGAAAACTGATTTCTGCTACAGACATTCAGTACTCTGGCAGTCTGCTGAAC
TCCTTGAATGAGCAACGTGGCCATGGACTCTTCTGTGATGTTACCGTTATTGTGGAAGAC
CGAAAATTCCGGGCTCACAAGAATATTCTTTCAGCTTCTAGTACCTACTTCCATCAGCTC
TTCTCTGTTGCTGGGCAAGTTGTTGAACTGAGCTTTATAAGAGCAGAGATCTTTGCAGAA
ATTCTCAATTATATCTATAGTTCTAAAATTGTTCGTGTTAGATCAGATTTGCTTGATGAG
TTAATTAAATCAGGGCAGTTATTAGGAGTGAAATTTATAGCAGAGCTTGGTGTCCCATTG
TCACAGGTTAAAAGCATCTCAGGTACAGCGCAGGATGGTAATACTGAGCCTTTACCTCCT
GATTCTGGTGACAAGAACCTTGTAATACAGAAATCAAAAGATGAAGCCCAAGATAATGGG
GCTACTATAATGCCTATTATAACAGAGTCTTTTTCATTATCTGCCGAAGATTATGAAATG
AAAAAGATCATTGTTACCGATTCTGATGATGATGATGATGATGTCATTTTTTGCTCCGAG
ATTCTGCCCACAAAGGAGACTTTGCCGAGTAATAACACAGTGGCACAGGTCCAATCTAAC
CCAGGCCCTGTTGCTATTTCAGATGTTGCACCTAGTGCTAGCAATAACTCGCCCCCTTTA
ACAAATATCACACCTACTCAGAAACTTCCTACTCCTGTGAATCAGGCAACTTTGAGCCAA
ACACAAGGAAGTGAAAAATTGTTGGTATCTTCAGCTCCAACACATCTGACTCCCAATATT
ATTTTGTTAAATCAGACACCACTTTCTACACCACCAAATGTCAGTTCTTCACTTCCAAAT
CATATGCCCTCTTCAATCAATTTACTTGTGCAGAATCAGCAGACACCAAACAGTGCTATT
TTAACAGGAAACAAGGCCAATGAAGAGGAGGAGGAGGAAATAATAGATGATGATGATGAC
ACTATTAGCTCCAGTCCTGACTCGGCCGTCAGTAATACATCTTTGGTCCCACAGGCTGAT
ACCTCCCAAAATACCAGTTTTGATGGATCATTAATACAGAAGATGCAGATTCCTACACTT
CTTCAAGAACCACTTTCCAATTCCTTAAAAATTTCAGATATAATTACTAGAAATACTAAT
GATCCAGGCGTAGGATCAAAACATCTAATGGAGGGTCAGAAGATCATTACTTTAGATACA
GCTACTGAAATTGAAGGCTTATCGACTGGTTGCAAGGTTTATGCAAATATCGGTGAAGAT
ACTTATGATATAGTGATCCCTGTCAAAGATGACCCTGATGAAGGGGAGGCCAGACTTGAG
AATGAAATACCAAAAACGTCTGGCAGCGAGATGGCAAACAAACGTATGAAAGTAAAACAT
GATGATCACTATGAGTTAATAGTAGATGGAAGGGTCTATTATATCTGTATTGTATGCAAA
AGGTCATATGTCTGTCTGACAAGCTTGCGGAGACATTTTAACATTCATTCTTGGGAGAAG
AAGTATCCGTGCCGTTACTGTGAGAAGGTATTTCCTCTTGCAGAATATCGCACAAAGCAT
GAAATTCATCACACAGGGGAGCGAAGGTATCAGTGTTTGGCCTGTGGCAAATCTTTCATC
AACTATCAGTTTATGTCTTCACATATAAAGTCAGTTCATAGTCAAGATCCTTCTGGGGAC
TCAAAGCTTTATCGTTTACATCCATGCAGGTCTTTACAAATCAGACAATATGCATATCTT
TCCGATAGATCAAGCACTATTCCTGCAATGAAGGATGATGGTATTGGGTATAAGGTTGAC
ACTGGAAAAGAACCTCCAGTAGGGACCACTACATCTACTCAGAACAAGCCAATGACCTGG
GAAGATATTTTTATTCAGCAGGAAAATGATTCAATTTTTAAACAAAATGTAACAGATGGC
AGTACTGAGTTTGAATTTATAATACCAGAGTCTTACTAA

Clone variation with respect to NM_006777.3

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_006777 unedited
GAATTCGGCACCAGGCGGCGGCCGCGTCGACGTCGACCCAGACTGGAGCGACGTTTAAAG
AAGGGGCAGAATCGCTGGGGAGTGCGGCTTCTTCTTGTTGGGGGACTCCCAGCCTTCCGC
GCGTCCGGAGGAGGAGAAGCGGCGGCGCCGGGAAGCAGGCATGGAGAGTANAAAACTGAT
TTCTGCTACAGACATTCAGTACTCTGGCAGTCTGCTGAACTCCTTGAATGAGCAACGTGG
CCATGGACTCTTCTGTGATGTTACCGCTATTGTGGAAGACCGAAAATTCCGGGCTCACAA
GAATATTCTTTCAGCTTCTAGTACCTACTTCCATCAGCTCTTCTCTGTTGCTGGGCAAGT
TGTTGAACTGAGCTTTATAAGAGCAGAGATCTTTGCAGAAATTCTCAATTATATCTATAG
TTCTAAAATTGTTCGTGTTAGATCACATTTGCTTGATGAGTTAATTAAATCACGGCAGTT
ATTACGAGTGAAATTTATACCAGAGCTTGGTGTCCCATTGGCACAGGTTAAAAGCATTTT
AGGTCCAGCGCAGGATGGTAATACTGAGCCTTTACCCTCTGATCCTGGTGACAAGAACCT
TGTCACCCCAAATTAAAACATGAACCCCCAAATAACGGGGGCTCCTATAATGCCCTATAC
ACCACAGTTTTTCTCCTTACCTGGCCAACATCATGAAATCGAACACCCCACTTGTCCCCC
CCTCCTACGATCATTACGAAGATTGCCCTTTCTCCGCCCCCACATCTTCACCACC

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_006777 unedited
CCCCCTTGAGTNTGACCGGCGAGCCGCATTTACGACCGGGTTTTTTCTTTTTTTTTTTTT
TTCAGAAATTAATCATTTTATTTTTGCCACAGAAAGCTCTAAGAACTAATATCAGGCCAT
GGTTAATGAAAAGTAGAACTTACAGTCTTGACAGGGAAAAATTGTACAAGTGTGAACATT
ACAGTACTCGGAGGAATGAACAGGGTTTCATATAGTTGACCAGCCAAAAAGCCAGTGCTG
TTAAGTTAGCATTTAATTTTTTAGAATATGCATGCCTTGACAATACAAAATACCTTGATC
AGTGTTTACCATTTTTTTATCTTTTTGGCACAATGGGGGAAAAATGCGGCATTATTTCTT
CATAGTGGTTGTGTGTGGGGGATCGTTACCACCAAAATCATAATAATCATTTAAGGTATA
TTTTAAAGTTAGTCTCGCAGGATTGTTATGGCATTTTTAAATTTCTGTAGTTTAAGCATT
TTCATTTTGCCATATCTTTTACCAAATTACTATTTCCAGTAGTTCCTATCCAGACCCTTT
ACCGGTAATTTAGCATAGGAGCAAATTTGAAGCTACCTTCCCACAACAAACGGAAGTTTA
ATTCGCCGTAGCTTACGCATCCCATAAAAACACACTTATGGCAATTTTAAACAGTTCTCT
TGCTACAGAATTTCTCATTCCATACATACCCTCTAATGGAGGACTTTTTGCCCCAACAGA
CCCCTTCCTCATAAAACTTCTACCTTTGCCCTCTGCAACCTTACACCACCAACTTTAGCC
CCCTTACCTCATGGCCTTCCCTGGAGGTCCCCTGTTCAACCCACTATCTCTTACTCCAGT
CACTAAAATCATCTCCCCCTCTCAATCCACCTTCTTTTTCTTCACCCCTTTTTCCTCCTC
TAATCCCCCCTTATAATACTCCTCTATCTCTATTCCCATCTCACC

Restriction Sites: NotI-NotI

ACCN: NM_006777

Insert Size: 4840 bp

OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

Reconstitution Method:	1. Centrifuge at 5,000xg for 5min. 2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA. 3. Close the tube and incubate for 10 minutes at room temperature. 4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom. 5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.
RefSeq:	NM_006777.3, NP_006768.1
RefSeq Size:	5225 bp
RefSeq ORF:	2019 bp
Locus ID:	10009
UniProt ID:	Q86T24
Cytogenetics:	Xq24
Domains:	BTB, zf-C2H2
Gene Summary:	This gene encodes a transcriptional regulator with bimodal DNA-binding specificity, which binds to methylated CGCG and also to the non-methylated consensus KAISO-binding site TCCTGCNA. The protein contains an N-terminal POZ/BTB domain and 3 C-terminal zinc finger motifs. It recruits the N-CoR repressor complex to promote histone deacetylation and the formation of repressive chromatin structures in target gene promoters. It may contribute to the repression of target genes of the Wnt signaling pathway, and may also activate transcription of a subset of target genes by the recruitment of catenin delta-2 (CTNND2). Its interaction with catenin delta-1 (CTNND1) inhibits binding to both methylated and non-methylated DNA. It also interacts directly with the nuclear import receptor Importin-α2 (also known as karyopherin alpha2 or RAG cohort 1), which may mediate nuclear import of this protein. Alternatively spliced transcript variants encoding the same protein have been identified.[provided by RefSeq, May 2010] Transcript Variant: This variant (2) lacks an exon in the 5' UTR, as compared to variant 1.